

RECEIVED

JUL 22 2009

CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

TROY  
PROJECT OFFICE

Date 07/21/09

Contract

ID 090123-303

Job No. J3P2146 & J3P2146C

County Lincoln Route 61 & U  
Iron Mountain Construction

Original Bid Cost \$8,374,042.13

Contractor Services

By Chris A. Wilmes

Designed By MODOT

Phone (636) 978-9835

VECP 09-66

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Existing:

Construct Route U according to profile shown on Job J3P2146C plans.

Proposed:

Adjust the profile of Route U between Stations 48+00 and 56+00 to raise the profile of the road to a more gradual decline and to avoid a large area of Class C Excavation that was not originally accounted for.

(New Profile and Cross Sections Attached)

2. Estimate of reduction in construction costs. \$15,483.80 \$22,229.56 J.F. 05/17/09

MoDOT Savings ~~\$7,741.90~~ \$11,114.78 J.F. 05/17/09

Iron Mountain Savings ~~\$7,741.90~~ \$11,114.78 J.F. 05/17/09

(See attached spreadsheet with quantity adjustments)

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

None

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

None

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

07/29/09

Need to complete fill.

(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A

(date and/or dates)

**Additional Comments:**

The current profile plan for Route U shows a vertical curve at Station 50+55 that takes the grade from -4.24% to -0.5% in less than 150 linear feet. IMCS proposed profile would provide a more gradual change in grade by having two vertical curves taking the grade from -4.24% to -1.67% -0.5% in over 800 linear feet as illustrated in the attached profile.

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

**Comments:**

The proposed Route U profile revision will result in estimated savings of \$22,229.56, based on profiles and cross sections received August 3.

Joseph Eppanets  
(Submitted By Resident Engineer)

08/17/09  
Date

**Comments:**

*(including developer)*  
All involved agree with this change. The change in profile will reduce Class C excavation, thus generating savings noted above. (Class C was not anticipated from original X-sections as noted in memo by RE)

- ☒ Approval Recommended  
☐ Rejection Recommended

Mary Radenberg  
District Engineer For Paula Gough

8/18/09  
Date

**Comments:**

- ☐ Approval Recommended  
☐ Rejection Recommended

N/A

Federal Highway Administration  
Required for FHWA Full Oversight Projects

Date

**Comments:**

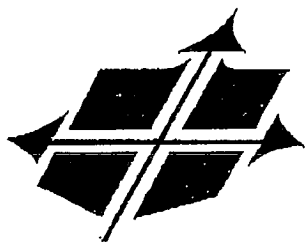
I agree with the district that this is an acceptable alternative and that the final product will perform as well as the original design. Denis Glascock. 8/19/2009

- ☒ Approval  
☐ Rejection

David D. Glascock  
State Construction and Materials Engineer

8-20-09  
Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 278, Jefferson City, MO 65102



**CROSSROADS CENTER, INC.**

P. O. BOX 2050 • 534 FM 989  
BASTROP, TEXAS 78602

PHONE (512) 321-9901  
FAX (512) 321-9903

August 14, 2009

Christopher A Wilmes  
Fred Weber, Inc.  
2320 Creve Coeur Mill Rd  
St Louis, MO 63043

Re: Lincoln County Rte U/61 Interchange  
Cost Share Project  
MoDOT Job No. J3P2146

Dear Chris,

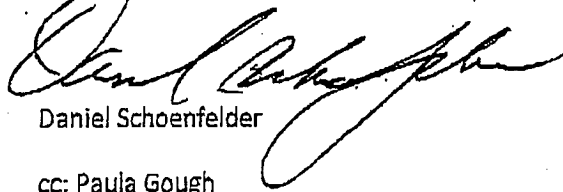
This letter is confirmation that Crossroads Center Moscow Mills, LLC, has reviewed the Value Engineering Proposal titled "Modified Route U Profile Between Stations 48+00 and 56+00 Estimated Quantities and Savings" submitted by Fred Weber, Inc. and approves it as submitted.

Our understanding of Value Engineering and the agreement between Crossroads Center Moscow Mills and the Missouri Department of Transportation is that Fred Weber will receive fifty percent of the savings and MoDOT and Crossroads Center Moscow Mills will each receive twenty-five percent of the savings.

It is also understood that Fred Weber has agreed to pay the \$4,990.00 engineering cost estimate submitted by Great River Engineering that did not qualify for MoDOT Value Engineering expenses.

Sincerely,

CROSSROADS CENTER MOSCOW MILLS, LLC



Daniel Schoenfelder

cc: Paula Gough



August 13, 2009

Missouri Dept. of Transportation  
111 Francis Drive  
Troy, MO 63379  
Attn: Joe Ferrante

Re: Route 61 & U (134)/(4)  
Job #J3P2146/J3P2146C  
Lincoln County  
IMCC Job #409613  
Proposed Profile Change

Dear Mr. Ferrante:

Please find attached the revised VE Estimated Quantities and Savings Spreadsheet for VE #3 as discussed in your email dated 8/7/2009. The revised shared savings is \$22,229.56.

Also enclosed is a letter from Crossroads Development indicating their concurrence with the VE.

Before the quantity of Class C that would be eliminated is correct a change order of 1574.97 CY of Class C will have to be issued to represent the additional Class C that has been discovered between Stations 48+00 and 56+00.

Should you require additional information please contact me at (314) 210-0833.

Very truly yours,

Iron Mountain Construction Services

Brandon P. Bates  
Field Engineer

pc: File

Project Number	Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
J3P2146C	1880	Class A	CUYD	131423.00	126847.08	(4575.92)	\$4.20		-\$19,218.86
	1890	Class C	CUYD	25365.00	23555.99	(1809.01)	\$6.40		-\$11,577.66
	1900	Compacting Embankment	CUYD	84213.00	84965.24	752.24	\$0.25	\$188.06	
	1910	Compacting in Cut	Sta	36.50	31	(5.5)	\$100.00		-\$550.00
	2220	Precast Drop Inlet 2' X 2'	FT	13.00	19	6.00	\$520.00	\$3,120.00	
	2230	Precast Drop Inlet 4' X 2'	FT	9.00	11	2.00	\$325.00	\$650.00	
	New	Embankment In Place	CUYD	0	2292.85	2292.85	\$2.25	\$5,158.91	
								\$9,116.97	-\$31,346.53
Total VE Savings To Be Shared									\$22,229.56
Total Savings - MoDot									\$11,114.78
Total Savings - Iron Mountain Construction Services									\$11,114.78

\* Embankment In Place represents the quantity of material that has already been moved between Sta 48+00 to 56+00 according to the plan profile, which would have to be moved back into the area to raise the profile to match the VE profile. This quantity is as of 7/29/09.

# VALUE ENGINEERING CHECK SHEET

## **TYPE OF WORK**

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☒ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. - Base eliminated

## **SUMMARY OF PROPOSAL**

(If needed, condense summary to a couple of lines)

This VE involves a change in profile to reduce the amount of class C excavation required.

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## **SCANNING OF DOCUMENT**

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

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